THERMALINE T5000ʳ

5r
MULTI-TECHNOLOGY PLATFORM
leadership by design

SCALABLE
Software upgradeable assures support of the latest features

INNOVATIVE
Widest range of emulations for easy consolidation of multiple printer brands

BEST-OF-BREED
PowerPC controller and new high-performance 5ʳ driver deliver industry-leading throughput

BUILT FOR CHANGE
Snap-in print head allows operator to easily replace print heads and change from 203 dpi to 300 dpi printing

SMART READY
RFID field upgradeable supports future RFID requirements

RFiD (((SMART)))™

SUPPORTING YOUR THERMAL PRINTING NEEDS TODAY AND TOMORROW

T5000ʳ™ thermal printers, based on the world-class 5ʳ Multi-Technology Platform, are web-enabled, industrial-grade thermal bar code label printers designed to operate in demanding manufacturing or distribution environments. Through *leadership by design* Printronix thermal printers enable the rollout of bar code label printing throughout the supply chain with an open migration path to RFID for future requirements. Users can obtain RFID upgrade kits as needed when supply chain applications require advance tracking and compliance. Upgrade kits have everything needed to upgrade to a multi-protocol SmartLine™ printer.

Optimised with PrintNet® Enterprise, the T5000ʳ printers allow IT network managers to remotely control, configure, manage and monitor printers over the network. And with Online Data Validation (ODV™) and ODV Data Manager, users have a closed loop system providing the security of 100% guaranteed good bar codes with documented readability reports.

ADDITIONAL FEATURES

- Unique dual motor ribbon system eliminates clutch replacement and ribbon wrinkle
- Aluminum die-cast design dampens vibration and maintains precise printer alignment
- Ventless system operates in environments with airborne particulate matter without compromising performance
- Easy side-load, cleaning and maintenance
- Wireless/Ethernet option provides real-time data access and local printing flexibility
- The GPIO option offers unparalleled integration with third party equipment
- Greater ribbon capacity eliminates frequent attention and disruption to workflow
- ODV option offers a complete bar code/RFID compliant solution
- PrintNet Enterprise option provides total control of worldwide print operations remotely

ASSET PROTECTION

The Printronix T5000ʳ thermal printers provide an upgrade path to RFID through a comprehensive upgrade kit solution compliant to today's standards and compatible for growth to expand to tomorrow's needs. Built on the 5ʳ Multi-Technology Platform, the T5000ʳ offers a foundation for protocol upgradeability and expansion through firmware upgrades. Available upgrades include global frequency kits and RFID upgrade kits for multi-protocol EPCglobal Class 0, 0+, 1, Philips 1.19 and future EPCglobal Class 1 Gen 2. The T5000ʳ eliminates service calls with field installable snap-in print heads that allow easy resolution change and the most extensive list of options such as ODV, guaranteeing 100% good bar codes every time.

PRINTRONIX®

GLOBAL PRINTING...ENABLED.

T5000^r RFID PRINTERS

T5000^r	Thermal transfer or direct transfer
	Industrial grade
	RFID field upgradeable

FIELD UPGRADE KIT

Upgrade your thermal printer to RFID with the following upgrade kit

SLMP Kit	Multi-protocol UHF encoder set to global frequency standards
(Excludes 8" printers (T5208^r/ T5308^r)	Supports EPCglobal Class 0, 0+, 1, Gen 2 and Philips 1.19 standards*

* Compatibility with future EPCglobal Class 1 Gen 2 standard through firmware upgrade. Please contact Printronix or a Printronix Certified RFID Integrator for availability.

PRINTING CHARACTERISTICS

Print Speed	T5204^r-4": 10 IPS @ 203 dpi (254mm/sec)
	T5304^r-4": 8 IPS @ 300 dpi (203mm/sec)
	T5206^r-6": 10 IPS @ 203 dpi (254mm/sec)
	T5306^r-6": 8 IPS @ 300 dpi (203mm/sec)
	T5208^r-8": 8 IPS @ 203 dpi (203mm/sec)
	T5308^r-8": 6 IPS @ 300 dpi (152mm/sec)
Printing Methods	Thermal transfer or direct thermal
Resolution	203/300 dpi (operator interchangeable)
Printable Width	4.1" max (104mm) (T5204^r/T5304^r)
	6.6" max (168mm) (T5206^r/T5306^r)
	8.5" max (216mm) (T5208^r/T5308^r)

RFID ENCODING (OPTIONAL UPGRADE KIT) (Excludes 8" printers (T5208^r/ T5308^r)

UHF encoder set to global frequency standards
Supports EPCglobal Class 0, 0+, 1, Gen 2 and Philips 1.19 standards

Operation Modes	**Write/Verify/Print** – write RFID data to tag and verifies contents are written correctly, while also printing the desired image
Error Handling Modes	**Overstrike** – when a bad RFID tag is detected, overstrikes label and applies the data to the next label
	Stop – when a bad tag is detected, stops the printer to allow for user intervention
Statistics Tracking	Tracks number of tags written to and number of bad tags detected

MEDIA HANDLING CHARACTERISTICS

Tear-Off	Individual label tear-off
Tear-Off Strip	Label strips tear-off
Continuous	Labels print continuously
Cut	Label cut to length
Peel-Off	Label peel and present (peel-off mode requires rewind option)

MEDIA HANDLING OPTIONS

Rewinder	Required for Peel and present. Not recommended for batch rewind of RFID labels
Cutter Kit	Cuts labels after printing specified number of labels

MEDIA COMPATIBILITY

Media Types	Roll or fanfold
	Labels, tags and tickets
	Paper, film or synthetic stock
	Thermal Transfer or Direct Thermal
Media Width	1.0" to 4.5" (T5204^r/T5304^r)
	2.0" to 6.8" (T5206^r/T5306^r)
	3.0" to 8.75" (T5208^r/T5308^r)
Media Thickness	0.0025" to 0.010"
Roll Core Diameter	3.0" (76 mm)
Maximum Roll Diameter	8.0" (209 mm)
Thermal Transfer Ribbon	
-Ribbon Width Acceptable	1.0" to 4.33" (T5204^r/T5304^r)
	2.0" to 6.8" (T5206^r/T5306^r)
	3.0" to 8.75" (T5208^r/T5308^r)
-Standard Ribbon Length	625m

OPERATOR CONTROLS & INDICATORS

Operator Controls	Off Line-On Line, Test Print, Job Select, Form Feed Menu, Cancel, Enter
Message Display	32 character
Indicators	Off Line-On Line, Menu

BAR CODE VALIDATION

Optional	Online Data Validation (ODV) - verifies bar code quality, overstrikes failed bar codes, and a replacement label is printed.

PROGRAMMING LANGUAGES

Standards	• Printronix Graphics Language (PGL)
	• Zebra Graphics Language (ZGL)*
	• TEC Graphics Language (TGL)*
	• Intermec Graphics Language (IGL)*
	• Sato Graphics Language (STGL)*

*Printer Protocol Interpreters for ZPL, TEC, IPL and Sato with RFID commands for ZPL and Sato only

Optional	IPDS over Ethernet, Twinax or Coax

PROTOCOLS

Optional	Telnet TN5250/TN3270

BAR CODE SYMBOLOGIES AVAILABLE

AUSTPORT, Aztec, BC35, BC412, CODABAR, Code 11, Code 35, Code 39, Code 93, Code 128 (A,B,C), DATAMATRIX, EAN8, EAN13, FIM, 125GERMAN, Interleaved 2/5, ITF14, Matrix, MAXICODE, MSI, PDF417, PLANET, PLESSEY, POSTNET, POSTBAR, ROYALBAR, RSS14, TELEPEN, UCC/EAN-128, UPC-A, UPC-E, UPC-E0, UPCSHIP, UPS11

SENSING METHODS

Transmissive, Reflective (Gap, Mark, Notch, Continuous Sensing Form)

INTERFACES

Standard	• RS232 Serial
	• IEEE 1284 (Centronics)
	• USB 2.0
Optional	• Ethernet (includes PrintNet Enterprise Software CD)
	• Wireless (802.11b) (includes PrintNet Enterprise Software CD)
	• Coax/Twinax
	• GPIO (General Purpose Input/Output)

FONTS, GRAPHICS SUPPORT, WINDOWS DRIVERS

Fonts	OCRA, OCRB, Courier, Letter Gothic, CG Times, CG Triumvirate, CG Triumvirate Bold, CG Triumvirate Bold Condensed
Graphic Support	PCX, BMP and TIFF file formats
Windows Drivers	Windows NT/2000/XP

MEMORY

DRAM	32Mb standard
Flash	8Mb standard (16Mb optional)

POWER REQUIREMENTS

Line Input	90-264 VAC (48-62Hz) PFC
Power Consumption	150 watts (typical)
Regulatory Compliance	FCC-B, UL, CSA, ETSI EN 300 220

ENVIRONMENTAL CONSIDERATIONS

Operating Temperature	5˚C to 40˚C
Dimensions	297mm W x 520mm L x 330mm H (T5204^r/T5304^r)
	340mm W x 520mm L x 330mm H (T5206^r/T5306^r)
	391mm W x 520mm L x 330mm H (T5208^r/T5308^r)
Printer/Shipping Weight	16Kg / 21Kg (T5204^r/T5304^r)
	18Kg / 23Kg (T5206^r/T5306^r)
	19Kg / 24Kg (T5208^r/T5308^r)

Printronix offers a wide selection of RFID label sizes and inlay designs as well as thermal transfer ribbons. To learn more about RFID labels and supplies or to place an order, visit www.rfid.printronix.com or call +33 (0) 146 251 900.

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